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(54) Title: A FULL DULL POLYAMIDE 6 YARN, AND A PROCESS OF PREPARING FOR THE SAME

(57) **Abstract:** The present invention relates to a full dull polyamide 6 yarn and a process for preparing the same. The yarn of this invention contains 1.5 to 2.5 % by weight of titanium dioxide relative to the weight of the yarn, has 35 to 95 titanium dioxide particles having a major axial length of greater than 5µm being contained in 50 mg of the yarn, and contains 0.1 to 0.5 % by weight of phosphate salt (wetting agent) relative to the weight of titanium dioxide. In the process of this invention, 0.1 to 0.5 % by weight of phosphate salt relative to the weight of titanium dioxide is added as a wetting agent, caprolactam is applied along with water upon concentration correction, and naphthalene sulfonate based salt is applied along with titanium dioxide slurry during the process of polyamide 6 polymerization. The present invention improves the full dull effect and drape property of the yarn since it contains a great quantity of titanium dioxide having a proper diameter in the yarn without degrading the yarn physical properties and operationability.

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